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Geotechnical
Environmental and
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Engineering

February 19, 2008
Project 04516-2

Ms. Irene M. Dale
Environmental Engineer
Bureau of Waste Site Cleanup
Department of Environmental Protection
205B Lowell Street
Wilmington, MA 01887

RECEIVED
FEB 19 2008
DEP
NORTHEAST REGIONAL OFFICE

Dear Ms. Dale:

Re: Phase II Scope of Work Amendment No. 2
50 Tufts Street Site
Somerville, MA
RTN 3-23246 (Transaction ID 166140)

On behalf of UniFirst Corporation of Wilmington, Massachusetts, GEI Consultants, Inc. (GEI) is submitting this Phase II Scope of Work (SOW) Amendment No. 2 for further investigation of environmental conditions at the 50 Tufts Street Site in Somerville, Massachusetts (the Site). The initial Phase II SOW was submitted to DEP on May 21, 2007.

The Phase II SOW Amendment Transmittal Form (BWSC108) was submitted by eDEP on February 12, 2008 and a copy is in Attachment A.

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1. Contact Information

Entity Undertaking the IRA	Licensed Site Professional
John R. Badey	Ileen S. Gladstone, P.E., LSP
Vice President of Distribution and Engineering	Vice President
UniFirst Corporation	GEI Consultants, Inc.
68 Jonspin Road	400 Unicorn Park Drive
Wilmington, MA 01887	Woburn, MA 01801
978.658.8888 ext 578	781.721.4012
	LSP License: 9719

2. Background

Chlorinated VOCs, including PCE, have been measured in soil, groundwater, and indoor air at the 50 Tufts Street Property. GEI is continuing to carry out Immediate Response Actions (IRAs) and the Phase II Comprehensive Site Assessment (CSA) as described in IRA Plans, Status Reports, and the Phase II SOW previously filed with DEP. The results of groundwater, soil, soil vapor, indoor air, and other sampling and investigation activities conducted as IRAs will be considered in the preparation of the Phase II CSA. This Phase II SOW Amendment describes additional investigations to be formally undertaken as Phase II activities.

3. Scope of Work

This Phase II SOW includes:

- Installation and sampling of one shallow overburden groundwater monitoring well on Franklin Street.
- Surface soil sampling from selected residential and commercial properties at the Site and at the 50 Tufts Street property.

3.1 Franklin Street Monitoring Well Installation

On January 23, 2008, GEI engaged GeoLogic Earth Exploration, Inc. (GeoLogic) to install one shallow overburden monitoring well (MW122). The approximate monitoring well location is shown in Figure 1. GeoLogic advanced the boring with driven casing to a depth of approximately 16 feet below ground surface. Split-spoon samples were collected continuously during drilling to characterize the sub-surface conditions. GEI continuously logged the boring stratigraphy and recorded observations of other physical characteristics of the soil. The monitoring well was constructed using 2-inch polyvinyl chloride (PVC) casing with an approximately 10-foot screened section. The monitoring well was also constructed to allow soil gas sampling by extending the well screens a minimum of three feet above the groundwater table.

3.1.1 Boring Soil Sampling and Testing

Selected soil samples were screened for the presence of VOCs using a PID and the DEP's jar headspace method. GEI submitted soil samples to Accutest Laboratories (Accutest) of Marlborough, Massachusetts for analysis by U.S. Environmental Protection Agency (EPA) Method 8260B.

GEI also submitted soil samples to PTS Laboratories (PTS) of Sante Fe Springs, California for analysis of grain size, bulk density, and total organic carbon (TOC).

3.1.2 Groundwater and Soil Gas Sampling and Testing

Following installation of the monitoring wells, we developed the wells to remove water that may have been introduced during drilling, to remove fines from the well, and to develop the sand pack placed in the well. Approximately one week after well development, GEI collected soil gas samples from the newly installed well and submitted them to Accutest for analysis by EPA Method TO-15 for the following list of chlorinated VOCs:

- Chloroethane
- Carbon Tetrachloride
- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- 1,2-Dichloroethane
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene (PCE)
- Trichloroethylene (TCE)
- Vinyl Chloride

Following the soil gas sampling, GEI collected groundwater from the monitoring well using low-flow sampling techniques, and submitted them to Accutest for analysis of VOCs by EPA Method 8260B.

3.2 Groundwater Monitoring Well Measurements

We will engage BSC Group (BSC) of Boston, Massachusetts to survey the monitoring well location and top of casing and ground surface elevations relative to the datum used for existing wells at the Site. We will measure water level elevations in the newly-installed well and existing wells at the Site to evaluate Site-wide groundwater flow directions and gradients.

3.3 Surface Soil Sampling

GEI will collect up to 10 soil samples from selected residential and commercial properties at the Site, and up to 5 soil samples from the 50 Tufts Street property. Proposed sampling locations are shown in Figure 2. Soil samples will be collected from approximately 0.5 to 2 feet deep. We will collect the samples using a hand auger and garden trowel.

Soil samples will be screened for the presence of VOCs using a PID and the DEP's jar headspace method. GEI will submit the soil samples to Accutest for analysis by EPA Method 8260B.

4. Schedule

Phase II activities are on-going. The proposed schedule is:

Activity	Timeframe
Drill and install shallow overburden monitoring well (MW122).	Completed
Collect soil gas and groundwater samples from MW122.	Completed
Survey location and casing elevation of newly installed well.	Completed by March 15, 2008
Collect groundwater level measurements.	Monthly. The next round of measurements will be collected in February 2008.
Collect Surface Soil Samples	To be completed by March 1, 2008

Please contact me at 781.721.4012 or igladstone@geiconsultants.com if you have any questions regarding this letter.

Very truly yours,

GEI CONSULTANTS, INC.

Ileen Gladstone, P.E., LSP, LEED AP
Vice President

ISG/HAB/jah
Enclosures

c: John R. Badey, UniFirst Corporation
Peter Mills, City of Somerville
Noreen Burke, Department of Public Health

GEI Consultants

Geotechnical
Environmental and
Water Resources
Engineering

Table 1

Summary of Sub Slab Soil Testing Results

95R Franklin Street
Somerville, Massachusetts

			Sample ID: Date Sampled:	045162-95RSUBSOIL 12/5/07	045162-95RFRANK-EASTSILT 12/14/07	045162-95RFRANK-EASTFILL 12/14/07	045162-95RFRANK-WESTSILT 12/14/07	045162-95RFRANK-WESTFILL 12/14/07	045162-95RFRANK-NORTH SILT 12/11/2007	045162-95RFRANK-NORTH FILL 12/11/2007	045162-95RFRANK-SOUTH SILT 12/11/2007	045162-95RFRANK-SOUTH FILL 12/11/2007	045162-95RBACK Soil 1 1/8/2008	045162-95RBACK Soil-0-3 1/8/2008	045162-95RBACK Soil-5-7 1/8/2008	045162-95RFRONT Soil 1 1/9/2008	045162-95RFRONT Soil-0-3 1/8/2008	045162-95RFRONT Soil-5-7 1/9/2008
Analyte	Method	Units	MCP Reportable Concentration RCS-1 (mg/kg)															
Volatile Organic Compounds (VOCs)	SW846 8260B	mg/kg																
Benzene			2	< 0.053	< 0.049	< 0.051	< 0.039	< 0.060	< 0.042	< 0.047	< 0.041	0.156	NT	NT	NT	NT	NT	NT
1,3-Dichlorobenzene			1	< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	< 0.410	0.520	NT	NT	NT	NT	NT	NT
1,4-Dichlorobenzene			0.7	< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	0.0740 J	0.365	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane			0.4	0.107 J	< 0.190	0.430	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	< 0.260	NT	NT	NT	NT	NT	NT
1,1-Dichloroethene			3	0.184 J	< 0.190	0.106 J	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	0.491	NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethene			0.3	**0.772**	< 0.190	0.0969 J	< 0.160	0.132 J	< 0.170	< 0.190	< 0.170	**0.674**	NT	NT	NT	NT	NT	NT
Ethylbenzene			40	< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	0.0960 J	NT	NT	NT	NT	NT	NT
Methylene chloride			0.1	< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	0.0818 JB	< 0.190	0.0827 J	0.205 JB	NT	NT	NT	NT	NT	NT
Naphthalene			4	< 0.530	< 0.490	< 0.510	< 0.390	< 0.600	< 0.420	< 0.470	< 0.410	0.198 J	NT	NT	NT	NT	NT	NT
Tetrachloroethene			1	**42.1**	3.34	46.2	< 0.160	5.64	< 0.170	**1.14**	0.0381 J	**58.9**	< 0.160	< 0.160	< 0.180	< 0.130	< 0.120	< 0.250
Toluene			30	0.0558 J	< 0.490	< 0.510	< 0.390	< 0.600	< 0.420	< 0.470	< 0.410	0.264 J	NT	NT	NT	NT	NT	NT
1,1,1,-Trichloroethane			30	0.0604 J	< 0.190	0.0476 J	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	< 0.260	< 0.160	< 0.160	< 0.180	< 0.130	< 0.120	< 0.250
Trichloroethene			0.3	**3.31**	**0.319**	**2.16**	< 0.160	0.660	< 0.170	0.268	< 0.170	**6.17**	< 0.160	< 0.160	< 0.180	< 0.130	< 0.120	< 0.250
1,2,4-Trimethylbenzene			1000	< 0.530	< 0.490	< 0.510	< 0.390	< 0.600	< 0.420	< 0.470	< 0.420	0.268 J	NT	NT	NT	NT	NT	NT
m,p-Xylene			300	< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	0.575	NT	NT	NT	NT	NT	NT
o-Xylene			300	< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	0.141 J	NT	NT	NT	NT	NT	NT
Total VOCs				47	3.66	49.0	ND	6.43	0.0818	1.41	0.195	69.0						
Semivolatile Organic Compounds (SVOCs)	SW846 8270C	mg/kg																
2-Methylphenol			500	NT	< 0.560	< 0.590	< 0.590	0.0633 J	NT	< 0.630	NT	NT	NT	NT	NT	NT	NT	NT
3&4-Methylphenol			500	NT	< 0.560	< 0.590	< 0.590	0.148 J	NT	< 0.630	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthene			4	NT	< 0.280	0.257 J	0.0308 J	0.0563 J	NT	< 0.310	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene			1	NT	0.0592 J	0.636	0.368	0.264 J	NT	0.0571 J	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene			1000	NT	0.103 J	0.764	0.0398 J	0.136 J	NT	0.153 J	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene			7	NT	0.245 J	1.65	0.0526 J	0.327	NT	0.504	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene			2	NT	0.283	1.73	< 0.290	0.305 J	NT	0.514	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene			7	NT	0.617	1.79	< 0.290	0.671	NT	0.814	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(g,h,i)perylene			1000	NT	0.384	0.876	< 0.290	0.363	NT	0.575	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene			70	NT	0.290	1.44	< 0.290	0.301 J	NT	0.464	NT	NT	NT	NT	NT	NT	NT	NT
Bis(2-ethylhexyl)phthalate			100	NT	0.225 J	<0.300	0.194 J	0.208 J	NT	< 0.310	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene			70	NT	0.274 J	1.84	0.0468 J	0.323	NT	0.509	NT	NT	NT	NT	NT	NT	NT	NT
Dibenz(a,h)anthracene			0.7	NT	0.230 J	0.479	< 0.290	0.292 J	NT	0.271 J	NT	NT	NT	NT	NT	NT	NT	NT
Dibenzofuran			100	NT	0.0388 J	0.424	0.187 J	0.151 J	NT	< 0.310	NT	NT	NT	NT	NT	NT	NT	NT
Di-n-butyl phtalate			50	NT	< 0.280	0.0801 J	< 0.290	< 0.310	NT	< 0.310	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene			1000	NT	0.622	3.64	0.135 J	0.808	NT	1.1	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene			1000	NT	< 0.280	0.45	0.167 J	0.145 J	NT	0.0379 J	NT	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene			7	NT	0.361	1.07	< 0.290	0.35	NT	0.518	NT	NT	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene			4	NT	0.0888 J	1.18	0.755	0.553	NT	< 0.310	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene			4	NT	0.612	**5.30**	**5.13**	3.60	NT	0.0638 J	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene			10	NT	0.469	3.02	0.220 J	0.620	NT	0.663	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene			1000	NT	0.469	2.77	0.0932 J	0.602	NT	0.939	NT	NT	NT	NT	NT	NT	NT	NT
Total SVOCs				NT	5.37	29.4	7.42	10.3	NT	7.18	NT	NT	NT	NT	NT	NT	NT	NT
Extractable Petroleum Hydrocarbons (EPH)	MADEP EPH REV 1.1	mg/kg																
C9-C18 Aliphatics			1000	< 12.0	9.940 J	31.3	9.56 J	< 12.0	NT	< 12.0	NT	NT	NT	NT	NT	NT	NT	NT
C19-C36 Aliphatics			3000	28.9	< 11.0	52.3	< 11.0	20.2	NT	< 12.0	NT	NT	NT	NT	NT	NT	NT	NT
C11-C22 Aromatics			1000	171	20.5 J	123	< 22.0	< 24.0	NT	< 25.0	NT	NT	NT	NT	NT	NT	NT	NT
Total EPH			NS	200	30.4	207	9.56	20.2	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT
Polycyclic Aromatic Hydrocarbons (PAHs)	MADEP EPH REV 1.1	mg/kg																
Acenaphthene			4	1.08	< 0.540	< 0.560	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene			1000	2.31	< 0.540	0.669	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene			7	5.21	< 0.540	1.25	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene			2	**6.25**	< 0.540	**2.08**	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene			7	6.03	< 0.540	2.06	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(g,h,i)perylene			1000	3.64	0.630	2.45	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene			70	4.60	< 0.540	1.74	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene			70	6.73	< 0.540	1.68	< 0.550	< 0.600	NT	0.527 J	NT	NT	NT	NT	NT	NT	NT	NT
Dibenz(a,h)anthracene			0.7	**0.959**	< 0.540	0.460 J	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene			1000	12.6	0.442 J	3.12	< 0.550	0.580 J	NT	0.837	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene			1000	1.63	< 0.540	< 0.560	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene			7	4.01	< 0.540	2.08	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene			4	0.505 J	< 0.540	< 0.560	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene			10	**16.4**	< 0.540	2.83	< 0.550	< 0.600	NT	0.500 J	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene			1000	10.2	0.449 J	2.85	< 0.550	0.566 J	NT	0.733	NT	NT	NT	NT	NT	NT	NT	NT
Total PAHs			NS	82.2	1.52	23.3	ND	1.15	NT	2.60	NT	NT	NT	NT	NT	NT	NT	NT

Table 1
Summary of Sub Slab Soil Testing Results
95R Franklin Street
Somerville, Massachusetts

Analyte	Method	Units	Sample ID: Date Sampled: MCP Reportable Concentration RCS-1 (mg/kg)	045162-95RSUBSOIL 12/5/07	045162-95RFRANK-EASTSILT 12/14/07	045162-95RFRANK-EASTFILL 12/14/07	045162-95RFRANK-WESTSILT 12/14/07	045162-95RFRANK-WESTFILL 12/14/07	045162-95RFRANK-NORTH SILT 12/11/2007	045162-95RFRANK-NORTH FILL 12/11/2007	045162-95RFRANK-SOUTH SILT 12/11/2007	045162-95RFRANK-SOUTH FILL 12/11/2007	045162-95RBACK Soil 1 1/8/2008	045162-95RBACK Soil-0 3 1/8/2008	045162-95RBACK Soil-5 7 1/8/2008	045162-95RFRONT Soil 1 1/9/2008	045162-95RFRONT Soil-0-3 1/8/2008	045162-95RFRONT Soil-5-7 1/9/2008
Polychlorinated Biphenyls (PCBs)	SW846 8082	mg/kg																
Total PCBs			2	ND	ND	ND	ND	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT
Metals	SW846 6010B	mg/kg																
Arsenic			20	36.4	10.9	31.5	12.6	19.2	NT	19.3	NT	NT	NT	NT	NT	NT	NT	NT
Barium			1000	517	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium			2	1.8	< 0.46	1.5	< 0.44	< 0.47	NT	0.53	NT	NT	NT	NT	NT	NT	NT	NT
Chromium			1000	25	22.8	25.1	32	23.2	NT	17	NT	NT	NT	NT	NT	NT	NT	NT
Lead			300	3580	499	4870	44.2	874	NT	1890	NT	NT	NT	NT	NT	NT	NT	NT
Silver			100	1.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Selenium			400	4.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	SW846 7471A	mg/kg	20	5.2	0.26	3.0	0.039	0.71	NT	0.79	NT	NT	NT	NT	NT	NT	NT	NT
TCLP		mg/L																
Textrachloroethene	SW846 1311/8260		0.70	0.0418 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	SW846 1311		5.0	2.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Physical/Inorganic																		
Cyanide Reactivity	SW846 CHAP7	mg/kg	NS	<1.8	<1.8	<1.9	<1.8	<1.9	NT	<1.9	NT	NT	NT	NT	NT	NT	NT	NT
Ignitibility	SW846 1020	deg F	NS	>230	>230	>230	>230	>230	NT	>230	NT	NT	NT	NT	NT	NT	NT	NT
pH	SW846 9045	pH units	NS	NT	6.5	8.7	8	9.8	NT	7.7	NT	NT	NT	NT	NT	NT	NT	NT
Specific Conductivity	EPA 120.1 M	umhos/cm	NS	401	1220	2770	188	361	NT	382	NT	NT	NT	NT	NT	NT	NT	NT
Solids, Percent	EPA 160.3 M	%	NS	81.1	85.4	81.0	84.1	80.3	82.2	78.5	82.1	83.3	79.5	79.5	80.7	82	82	77.7
Sulfide Reactivity	SW846 CHAP7	mg/kg	NS	<62	<59	<62	<59	<62	NT	<64	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	SW846 9060M	mg/kg	NS	203000	20300	219000	17100	159000	5730	84000	1560	351000	NT	53000	< 1200	NT	29800	6020

General Notes
1 The laboratory analyses were performed by Accutest Laboratories.
2 In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
3 < = Analyte not detected at a concentration above the specified laboratory reporting limit.
4 Reportable Concentrations (e.g. RCS-1), where identified, are cited from the MCP.
5 MCP = 310 CMR 40.0000 Massachusetts Contingency Plan, updated February 14, 2008.
6 mg/kg = milligrams per kilogram.
7 ND = Not detected above laboratory reporting limit. See the laboratory data reports for the detection limits.
8 NS = No known standard for this analyte.
9 umhos/cm = micromhos per centimeter.
10 Unlined landfill disposal criteria are from the Massachusetts Department of Environmental Protection's Policy #COMM-97-001, dated August 15, 1997.
11 NT = Not tested.
12 Concentrations in bold exceed the given standard.

Qualifying Notes
J The reported result is below the laboratory reporting limit and is estimated.

Table 2
Testing Results- Indoor Air Samples
95R Franklin Street
Somerville, MA

Sample Location:	95R Franklin Street											
Sample Name:	045162-95R Fran-1		045162-95R Fran-B		045162-95RFRANK-1		045162-95RFRANK-CR		045162-95RFRANK-1		045162-95RFRANK-B	
Sample Date:	4/18/07		4/18/07		6/5/07		6/5/07		8/23/2007		8/23/07	
Collected by:	GEI		GEI		GEI		GEI		GEI		GEI	
Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte												
Volatile Organic Compounds (VOCs)												
Carbon tetrachloride	0.75 J	0.12 J	< 1.3	< 0.20	0.88 J	0.14 J	< 6.3	< 1.0	0.69 J	0.11 J	0.69 J	0.11 J
1,1,1-Trichloroethane	< 1.1	< 0.20	0.98 J	0.18 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Tetrachloroethylene (PCE)	35	5.1	106	15.6	19	2.8	8.1	1.2	2.3	0.34	3.5	0.52
Trichloroethylene (TCE)	1.1	0.20	2.7	0.51	0.75 J	0.14 J	< 5.4	< 1.0	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified limit.
3. μg/m^3 = micrograms per cubic meter.
4. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 2
Testing Results- Indoor Air Samples
95R Franklin Street
Somerville, MA

Sample Location:	**95R Franklin Street (continued)**											
Sample Name:	**045162-95RFRANK-1**		**045162-95R Frank-B2**		**045162-95RFRAN-1A**		**045162-95RFRAN-B2**		**045162-95R Frank-1**		**045162-95R Frank-B**	
Sample Date:	**11/15/2007**		**11/15/07**		**12/23/07**		**12/23/07**		**12/28/07**		**12/28/07**	
Collected by:	**GEI**		**GEI**		**GEI**		**GEI**		**GEI**		**GEI**	
Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte												
Volatile Organic Compounds (VOCs)												
Carbon tetrachloride	0.61 J	0.097 J	0.63 J	0.1 J	0.58 J	0.092 J	< 1.3	< 0.20	0.62 J	0.098 J	< 1.3	< 0.20
1,1,1-Trichloroethane	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Tetrachloroethylene (PCE)	1.3 J	0.19 J	1.3 J	0.19 J	1.0 J	0.15 J	< 1.4	< 0.20	1.1 J	0.16 J	1.1 J	0.16 J
Trichloroethylene (TCE)	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified limit.
3. µg/m^3 = micrograms per cubic meter.
4. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

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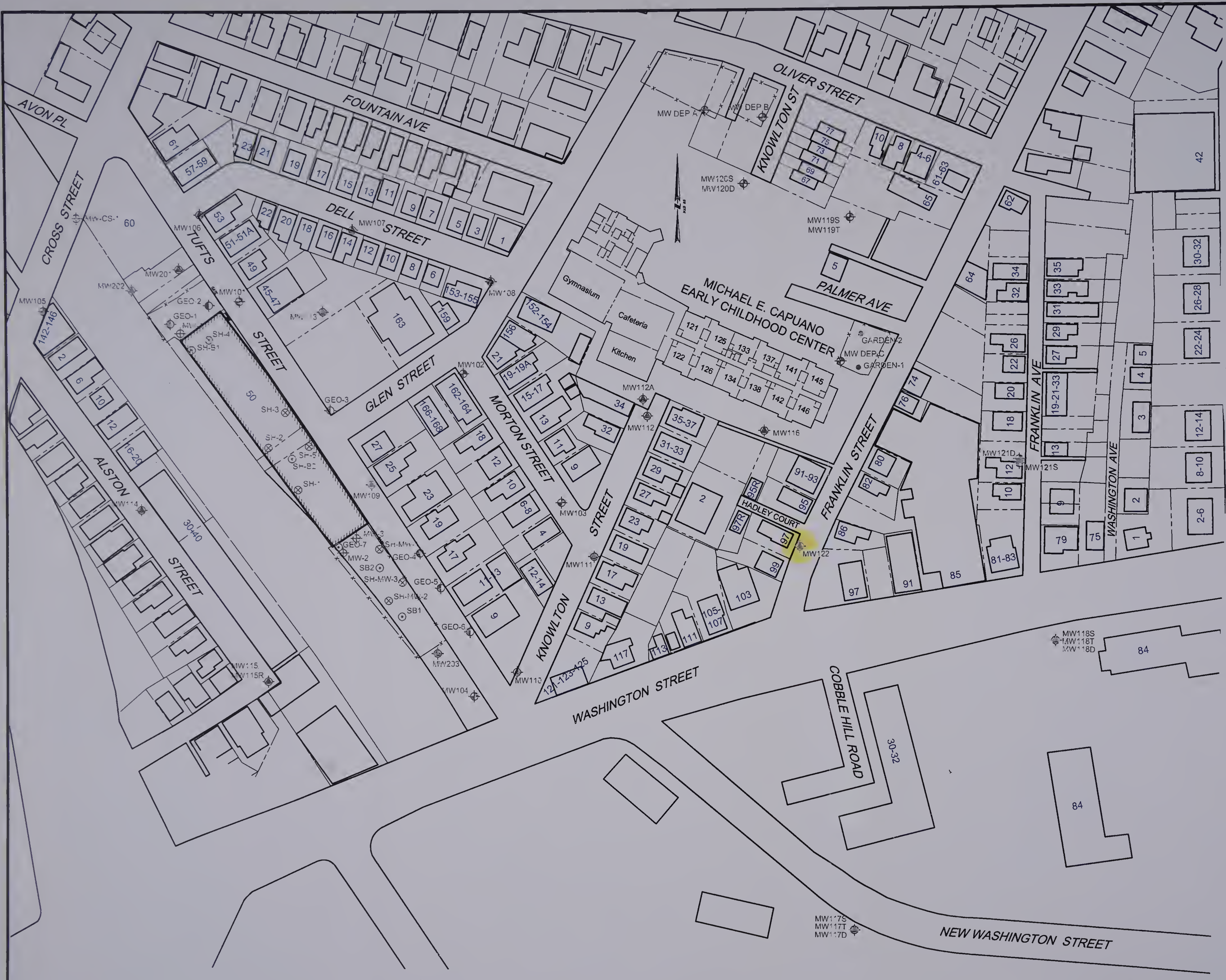
Geotechnical
Environmental and
Water Resources
Engineering



0 150 300

SCALE, FEET

LEGEND:

- NEWLY INSTALLED OVERBURDEN MONITORING WELL MW122 (JANAUARY 2008)
- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- ⊗ MONITORING WELL INSTALLED BY SANBORN HEAD ASSOCIATES, 2002
- MONITORING WELL INSTALLED BY GEOINSIGHT, JUNE 2004
- ⊙ SOIL BORING ADVANCED BY GEOINSIGHT, AUGUST 2004
- MONITORING WELL INSTALLED BY GEI, MAY 2006 - AUGUST 2007
- ⊕ MONITORING WELL INSTALLED PREVIOUSLY, DATE UNKNOWN
- • APPROXIMATE SURFACE SOIL SAMPLE LOCATION COLLECTED BY GEI, MARCH 2007
- —x—x— CHAIN LINK FENCE
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS

GENERAL NOTES:

1. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.

2.. STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.

4. EXISTING MONITORING WELL LOCATIONS AND ELEVATIONS WERE ESTABLISHED BY AN ON THE GROUND SURVEY BY BSC GROUP, INC. IN 2006, AND MARCH , JULY, AND SEPTEMBER 2007.

4. CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY AN ON THE GROUND SURVEY BY BSC GROUP, INC. IN JULY 2007.

5. GEI OBSERVED GEOSEARCH DRILLING ABANDON SH-MW1 ON AUGUST 9, 2007.

Phase II SOW Amendment No. 2
50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

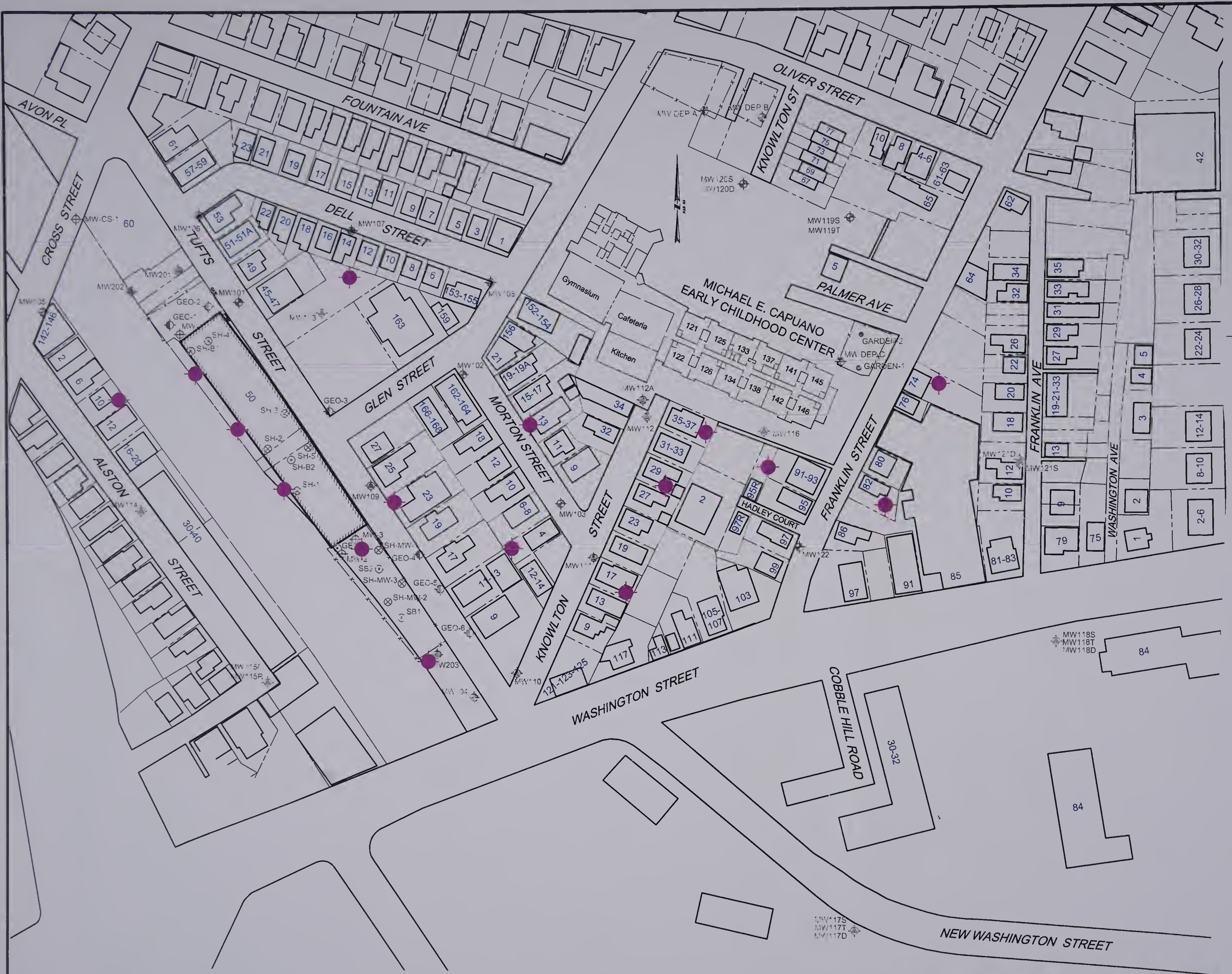
BORING AND MONITORING WELL LOCATIONS

Project 04516-2

February 2008

Fig. 1

N:\04516\#Drafting\045160-2\Phase II SOW Amend #2\045160-2 P2 sow2 02



0 150 300

SCALE, FEET

LEGEND:

- ● PROPOSED SHALLOW SOIL SAMPLING LOCATIONS
- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- ⊗ MONITORING WELL INSTALLED BY SANBORN HEAD ASSOCIATES, 2002
- MONITORING WELL INSTALLED BY GEOINSIGHT, JUNE 2004
- ⊙ SOIL BORING ADVANCED BY GEOINSIGHT, AUGUST 2004
- MONITORING WELL INSTALLED BY GEI, MAY 2006 - AUGUST 2007
- ⊕ MONITORING WELL INSTALLED PREVIOUSLY, DATE UNKNOWN
- • APPROXIMATE SURFACE SOIL SAMPLE LOCATION COLLECTED BY GEI, MARCH 2007
- —x—x— CHAIN LINK FENCE
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS

GENERAL NOTES:

1. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
2.. STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
4. EXISTING MONITORING WELL LOCATIONS AND ELEVATIONS WERE ESTABLISHED BY AN ON THE GROUND SURVEY BY BSC GROUP, INC. IN 2006, AND MARCH , JULY, AND SEPTEMBER 2007.
4. CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY AN ON THE GROUND SURVEY BY BSC GROUP, INC. IN JULY 2007.
5. GEI OBSERVED GEOSEARCH DRILLING ABANDON SH-MW1 ON AUGUST 9, 2007.

Phase II SOW Amendment No. 2
50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

PROPOSED SHALLOW SOIL SAMPLING LOCATIONS

Project 04516-2 | February 2008 | Fig. 2

N:\04516\#Drafting\045160-2\Phase II SOW Amend #2\045160-2 P2 sow2 01

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Environmental and
Water Resources
Engineering

APPENDIX A

Phase II Scope of Work Amendment
Transmittal Form (BWSC108)

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	HBALLANTYNE
Transaction ID:	166140
Document:	BWSC Comprehensive Response Action Transmittal
Size of File:	135.364 K
Status of Transaction:	SUBMITTED
Date and Time Created:	2/19/2008::3:28:24 PM

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to "Download a Copy" from the Current Submittals page.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number: 3 - 23246

A. SITE LOCATION:

1. Site Name: 50 TUFTS ST & PROP ACROSS THE ST

2. Street Address: 50 TUFTS ST

3. City/Town: SOMERVILLE   4. ZIP Code: 02145-4129

5. UTM Coordinates: a. UTM N: 4694322   b. UTM E: 328049

☑ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

☐ a. Tier IA   ☐ b. Tier IB   ☑ c. Tier IC   ☐ d. Tier II

7. If applicable, provide the Permit Number: W085813

B. THIS FORM IS BEING USED TO: (check all that apply)

☐ 1. Submit a **Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

☐ 2. Submit a **Revised Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

☑ 3. Submit a **Phase II Scope of Work**, pursuant to 310 CMR 40.0834.

☐ 4. Submit an **interim Phase II Report**. This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.

☐ 5. Submit a **final Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

☐ 6. Submit a **Revised Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

☐ 7. Submit a **Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

☐ 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

☐ 9. Submit a **Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

☐ 10. Submit a **Modified Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

☐ 11. Submit an **As-Built Construction Report**, pursuant to 310 CMR 40.0875.

☐ 12. Submit a **Phase IV Status Report**, pursuant to 310 CMR 40.0877.

☐ 13. Submit a **Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

☐ a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Response Action Outcome.

☐ b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

(All sections of this transmittal form must be filled out unless otherwise noted above)

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

☐ 14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

☐ 15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.

☐ 16. Submit a **Remedial Monitoring Report.** (This report can only be submitted through eDEP.)

a. Type of Report: (check one) ☐ i. Initial Report ☐ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal: (check all that apply)

☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.
☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.
☐ iii. A Remedial Monitoring Report(s) submitted concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase V ☐ ii. Remedy Operation Status ☐ iii. Class C RAO

d. Number of Remedial Systems and/or Monitoring Programs: ☐

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 17. Submit a **Remedy Operation Status**, pursuant to 310 CMR 40.0893.

☐ 18. Submit a **Status Report to maintain a Remedy Operation Status**, pursuant to 310 CMR 40.0893(2).

☐ 19. Submit a **Modification of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(5).

☐ 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).

☐ 21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

☐ a. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.

☐ b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

☐ 23. Submit a **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

(All sections of this transmittal form must be filled out unless otherwise noted above)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number
3 - 23246

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a* ***Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a* ***Phase II Scope of Work*** *or a* ***Phase IV Remedy Implementation Plan*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that an* ***As-Built Construction Report, a Remedy Operation Status****, a* ***Phase IV, Phase V or Post-Class C RAO Status Report****, a* ***Status Report to Maintain a Remedy Operation Status*** *and/or a* ***Remedial Monitoring Report*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 9719
2. First Name: ILEEN S   3. Last Name: GLADSTONE
4. Telephone: 7817214012   5. Ext.:   6. FAX:
7. Signature: ILEEN S GLADSTONE
8. Date: 02/19/2008 (mm/dd/yyyy)   9. LSP Stamp:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number 3 - 23246

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: UNIFIRST CORP

3. Contact First Name: JOHN R 4. Last Name: BADEY

5. Street: 68 JONSPIN RD 6. Title:

7. City/Town: WILMINGTON 8. State: MA 9. ZIP Code: 01887-0000

10. Telephone: 8003477888 11. Ext.: 12. FAX:

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS:

☑ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☑ e. Other RP or PRP Specify: OTHER PRPS

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☑ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.

☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.

☐ 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.

☐ 6. If submitting a Modification of a Remedy Operation Status, check here to certify that a statement detailing the compliance history, as per 310 CMR 40.0893(5), for the person making this submittal is attached.

☐ 7. If submitting a Modification of a Remedy Operation Status, check here to certify that written consent of the person who submitted the Remedy Operation Status submittal, as per 310 CMR 40.0893(5), is attached.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name. Send corrections to the DEP Regional Office.

☑ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number 3 - 23246

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, JOHN R. BADEY , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: JOHN R. BADEY
Signature

3. Title:

4. For: UNIFIRST CORP
(Name of person or entity recorded in Section D)

5. Date: 02/18/2008
(mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. FAX:

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

2/19/2008 3:21:20 PM

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Water Resources
Engineering

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